

## AMENDMENTS TO THE CLAIMS

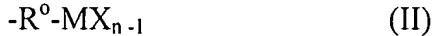
### **Claims 1-8 (Cancelled)**

**Claim 9 (New)** A polymer-supported Lewis acid catalyst comprising a Lewis acid group expressed by the following general formula (I):



wherein M represents a lanthanoid element, X represents an anionic group, and n is an integer representing the valence of M, said Lewis acid group being bonded to a polymeric chain via a  $\text{SO}_3$  or  $\text{SO}_4$  group.

**Claim 10 (New)** The polymer-supported Lewis acid catalyst comprising a Lewis acid group expressed by the following general formula (II):



wherein M represents a lanthanoid element, X represents an anionic group, n is an integer representing the valence of M, and  $R^o$  represents a  $\text{SO}_3$  or  $\text{SO}_4$  group, said Lewis acid group being bonded to a polymeric chain via a spacer chain.

**Claim 11 (New)** The polymer-supported Lewis acid catalyst according to claim 10, wherein the spacer chain is a hydrocarbon group.

**Claim 12 (New)** The polymer-supported Lewis acid catalyst according to claim 11, wherein the spacer chain is expressed by the following general formula (III):



wherein Ph represents a phenyl group, and m and l each represent an integer greater than or equal to 1.

**Claim 13 (New)** The polymer-supported Lewis acid catalyst according to any one of claims 9-12, wherein the polymeric chain comprises a polymer obtained by the addition polymerization of aromatic monomers.

**Claim 14 (New)** A method of organic synthesis using the polymer-supported Lewis acid catalyst according to any one of claims 9 to 12, wherein the reaction is performed in water or an aqueous medium.

**Claim 15 (New)** A method of organic synthesis using the polymer-supported Lewis acid catalyst according to claim 13, wherein the reaction is performed in water or an aqueous medium.

**Claim 16 (New)** The method of organic synthesis according to claim 14, which comprises the formation of a carbon-carbon bond.

**Claim 17 (New)** The method of organic synthesis according to claim 15, which comprises the formation of a carbon-carbon bond.

**Claim 18 (New)** The polymer-supported Lewis acid catalyst of claims 9 or 10, wherein x is a halogen atom or an organic acid group.

**Claim 19 (New)** The polymer-supported Lewis acid catalyst of claims 9 or 10, wherein x is a perfluoroalkyl sulfonate group.